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 NEWS  5  NOV 30  PHAR reloaded with additional data
 NEWS  6  DEC 01  LISA now available on STN
 NEWS  7  DEC 09  12 databases to be removed from STN on December 31, 2004
 NEWS  8  DEC 15  MEDLINE update schedule for December 2004
 NEWS  9  DEC 17  ELCOM reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  10 DEC 17  COMPUAB reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  11 DEC 17  SOLIDSTATE reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  12 DEC 17  CERAB reloaded; updating to resume; current-awareness
                  alerts (SDIs) affected
 NEWS  13 DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB

 NEWS EXPRESS  OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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FILE 'HOME' ENTERED AT 11:22:18 ON 21 DEC 2004

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE     TOTAL
                                                           ENTRY   SESSION
FULL ESTIMATED COST                                         0.21      0.21

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STRUCTURE FILE UPDATES:    19 DEC 2004  HIGHEST RN 799762-98-4
DICTIONARY FILE UPDATES:   19 DEC 2004  HIGHEST RN 799762-98-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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=> logoff hold
COST IN U.S. DOLLARS                                 SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                        0.42       0.63

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:22:35 ON 21 DEC 2004

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SESSION RESUMED IN FILE 'REGISTRY' AT 11:31:02 ON 21 DEC 2004
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COST IN U.S. DOLLARS                                 SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                        0.42       0.63

=>
Uploading C:\Examination Auxillary files\10678207\10678207 elected specie.str
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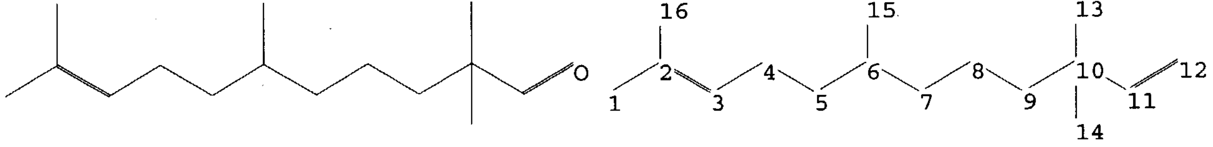

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chain nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16
chain bonds :
1-2  2-3  2-16  3-4  4-5  5-6  6-7  6-15  7-8  8-9  9-10  10-11  10-13  10-14
11-12
exact/norm bonds :
11-12
exact bonds :
```

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1-2  2-3  2-16  3-4  4-5  5-6  6-7  6-15  7-8  8-9  9-10  10-11  10-13  10-14


Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  11:CLASS  12:CLASS  13:CLASS  14:CLASS  15:CLASS  16:CLASS




L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
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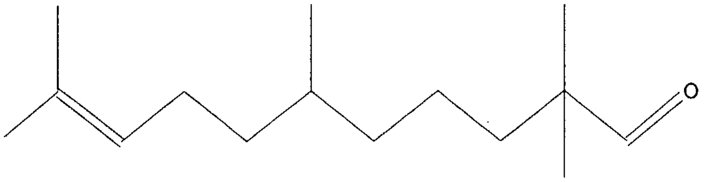

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Structure attributes must be viewed using STN Express query preparation.


=> search l1 sss sam
SAMPLE SEARCH INITIATED 11:31:34 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    310 TO ITERATE

100.0% PROCESSED     310 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:         5144 TO     7256
PROJECTED ANSWERS:               0 TO        0

L2              0 SEA SSS SAM L1

=> search l1 exact full
FULL SEARCH INITIATED 11:31:46 FILE 'REGISTRY'
SCREENING
FULL SCREEN SEARCH COMPLETED -    321 TO ITERATE

100.0% PROCESSED     321 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.21

L3              0 SEA EXA FUL L1

=> e pivaldehyde/cn
E1             1      PIVALATE ANION/CN
E2             1      PIVALATE ION/CN
E3             1 -->  PIVALDEHYDE/CN
E4             1      PIVALDEHYDE AZINE/CN
E5             1      PIVALDEHYDE OXIME/CN
E6             1      PIVALDEHYDE TOSYLHYDRAZONE/CN
E7             1      PIVALDOXIME/CN
E8             1      PIVALEPHRINE/CN
E9             1      PIVALEXIN/CN
E10            1      PIVALIC ACID/CN
E11            1      PIVALIC ACID (2,5-DICHLOROPHENYL)HYDRAZIDE/CN
E12            1      PIVALIC ACID (4-CHLOROPHENYL)HYDRAZIDE/CN
```
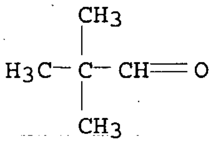

```
=> e3
L4             1 PIVALDEHYDE/CN

=> d 14

L4   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   630-19-3  REGISTRY
CN   Propanal, 2,2-dimethyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Pivalaldehyde (7CI, 8CI)
CN   Pivaldehyde (6CI)
OTHER NAMES:
CN   α,α-Dimethylpropanal
CN   α,α-Dimethylpropionaldehyde
CN   2,2-Dimethylpropanal
CN   2,2-Dimethylpropionaldehyde
CN   Neopentaldehyde
CN   Neopentanal
CN   NSC 22043
CN   Pivalic aldehyde
CN   tert-Butylformaldehyde
CN   tert-Pentanal
CN   tert-Valeraldehyde
CN   Trimethylacetaldehyde
FS   3D CONCORD
MF   C5 H10 O
CI   COM
LC   STN Files:   ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
       CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*, GMELIN*,
       HODOC*, IFICDB, IFIPAT, IFIUDB, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2,
       USPATFULL, VTB
         (*File contains numerically searchable property data)
     Other Sources:   EINECS**, NDSL**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA  CAplus document type:  Conference; Dissertation; Journal; Patent
RL.P   Roles from patents:  BIOL (Biological study); CMBI (Combinatorial
       study); FORM (Formation, nonpreparative); PREP (Preparation); PROC
       (Process); RACT (Reactant or reagent); USES (Uses); NORL (No role in
       record)
RLD.P  Roles for non-specific derivatives from patents:  PREP (Preparation);
       RACT (Reactant or reagent); USES (Uses)
RL.NP  Roles from non-patents:  ANST (Analytical study); BIOL (Biological
       study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
       MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
       (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents:  BIOL (Biological
       study); FORM (Formation, nonpreparative); PREP (Preparation); PROC
       (Process); PRP (Properties); USES (Uses)
```



$H_3C-C(CH_3)_2-CH=O$

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

            3492 REFERENCES IN FILE CA (1907 TO DATE)
              30 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            3499 REFERENCES IN FILE CAPLUS (1907 TO DATE)
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              43 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> file caplus
COST IN U.S. DOLLARS                             SINCE FILE       TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                   59.71       59.92

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FILE LAST UPDATED: 20 Dec 2004  (20041220/ED)

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=> l4/prep
          3500 L4
       3237781 PREP/RL
L5           224 L4/PREP
                 (L4 (L) PREP/RL)

=> d l5 214-224 ti fbib abs

L5   ANSWER 214 OF 224  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Aldehydes from esters
AN   1972:500787  CAPLUS
DN   77:100787
TI   Aldehydes from esters
IN   Vit, Jaroslav
PA   National Patent Development Corp.
SO   U.S., 6 pp.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 2
     PATENT NO.          KIND   DATE         APPLICATION NO.        DATE
     ---------------     ----   --------     --------------------   --------
PI   US 3660416           A     19720502     US 1970-6565           19700128
                                                                A
     JP 50028404          B4    19750916     JP 1970-104517         19701128
                                             US 1970-6565       A   19700128
     US 3839367           A     19741001     US 1972-220376         19720124
                                             US 1970-6565       A3  19700128
PATENT FAMILY INFORMATION:
FAN  1974:569132
     PATENT NO.          KIND   DATE         APPLICATION NO.        DATE
     ---------------     ----   --------     --------------------   --------
PI   US 3839367           A     19741001     US 1972-220376         19720124
                                             US 1970-6565       A3  19700128
     US 3660416          A      19720502    US 1970-6565         19700128
                                                                A
AB   Reduction of carboxylic esters by NaAlH2(OR)2 [R = MeOCH2CH2, Me2NCH2CH2,
     EtOCH2, Et2NCH2CH2, [(tetrahydropyran-2-yl)-oxy]methyl]] or by
     NaAlH(OCH2CH2OMe)3 gave a carboxaldehyde corresponding to the acid residue
     in the ester; NaHSO3 addition products of the aldehydes were also prepared
     Thus, AcCO2CH2CH2NMe2 with NaAlH2(OCH2CH2OMe)2 gave Me(CH2)6CHO.

L5   ANSWER 215 OF 224  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Synthesis of 32-functionalized lanostane derivatives
AN   1972:99863  CAPLUS
DN   76:99863
TI   Synthesis of 32-functionalized lanostane derivatives
AU   Batten, P. L.; Bentley, T. J.; Boar, R. B.; Draper, R. W.; McGhie, J. F.;
     Barton, D. H. R.
CS   Chelsea Coll. Sci. Technol., London, UK
SO   Journal of the Chemical Society, Perkin Transactions 1:  Organic and
     Bio-Organic Chemistry (1972-1999) (1972), (5), 739-48
     CODEN: JCPRB4; ISSN: 0300-922X
DT   Journal
LA   English
AB   B-Acetoxylanostan-7-one was converted in 6 steps into
     3β-acetoxylanost-7-ene-32-nitrile and thence into
     3β-acetoxylanost-7-en-32-al (I) and 3β-32-diacetoxylanost-7-ene;
     3β-acetoxy-11-oxolanost-8-ene-32-nitrile and Me 3β-acetoxy-32-
     nitrilo-11-oxo-25,26,27-trinorlanost-8-en-24-oate were prepared analogously.
     Novel methods of oxidation of sterically hindered aldehydes were developed;
     Me3CCHO was used as the model compound  E.g., Me3CCHO was converted to its
     phenylhydrazone and oxidized by O2/Pt to give 11% Me3CCO2H.  I could not
     be oxidized to the corresponding acid.

L5   ANSWER 216 OF 224  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Aldehydes from acid chlorides by reduction of ester-mesylates with sodium
     borohydride.  Cyclobutanecarboxaldehyde
AN   1972:72071  CAPLUS
DN   76:72071
TI   Aldehydes from acid chlorides by reduction of ester-mesylates with sodium
     borohydride.  Cyclobutanecarboxaldehyde
AU   Johnson, M. Ross; Rickborn, Bruce
CS   Dep. Chem., Univ. California, Santa Barbara, CA, USA
SO   Organic Syntheses (1971), 51, 11-17
     CODEN: ORSYAT; ISSN: 0078-6209
DT   Journal
LA   English
GI   For diagram(s), see printed CA Issue.
AB   Cyclobutanecarbonyl chloride and erythro-MeCH-(OH)CHMeOSO2Me gave
     .apprx.95% erythro-I.  I was treated with NaBH4 to give .apprx.45%
     dioxolane (II).  II was heated in H2SO4 to give 60%
     cyclobutanecarboxaldehyde.  Other aldehydes RCHO (R = pentyl, Ph, tert-Bu,
     cyclohexyl, PhCH:CH, 3-cyclohexen-1-yl, and cyclopropyl) were similarly
     prepared

L5   ANSWER 217 OF 224  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Alkylation of aldehydes through [organotin enolates of the aldehydes]
AN   1970:111585  CAPLUS
DN   72:111585
TI   Alkylation of aldehydes through [organotin enolates of the aldehydes]
AU   Odic, Yvon; Pereyre, Michel
CS   Lab. Chim. Org., Fac. Sci. Bordeaux, Talence, Fr.
SO   Comptes Rendus des Seances de l'Academie des Sciences, Serie C:  Sciences
     Chimiques (1970), 270(1), 100-3
     CODEN: CHDCAQ; ISSN: 0567-6541
DT   Journal
LA   French
AB   MeI or EtI with organic Sn compds. R1R2C:CHOSnBu3 (I, R1 is alkyl and R2 is H
     or alkyl), gave RR1R2CCHO, where R is Me and Et.  The yields of the R = Me
     compds. are higher than those with R = Et.  I and ClCO2Et give esters
     R1R2C:CHOCO2Et.

L5   ANSWER 218 OF 224  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Enamine alkylation mechanism
AN   1969:430001  CAPLUS
DN   71:30001
TI   Enamine alkylation mechanism
AU   Elkik, Elias; Francesch, Charlette
CS   Ecole Norm. Super., Paris, Fr.
SO   Bulletin de la Societe Chimique de France (1969), (3), 903-10
     CODEN: BSCFAS; ISSN: 0037-8968
DT   Journal
LA   French
OS   CASREACT 71:30001
AB   Enamines R1R2C:CHNMe2 are treated with alkylation agents to give
     enammonium compds., R1R2C:CHN+RMe2 X- (I).  I are heated to give immonium
     salts, RR1R2CCH:N+Me2 Br- (II).  II are converted to aldehydes, RR1R2CCHO.
     The intermol. rearrangement of I (R = PhCH2, Me) to the corresponding II
     and the intramol. rearrangement of I (R = allyl) are discussed.

L5   ANSWER 219 OF 224  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Composition of isobutylene hydroformylation products
AN   1969:114537  CAPLUS
DN   70:114537
TI   Composition of isobutylene hydroformylation products
AU   Alekseeva, K. A.; Rudkovskii, D. M.; Trifel, A. G.
CS   USSR
SO   Karbonilirovanie Nenasyshchennykh Uglevodorodov (1968) 75-80
     From: Ref. Zh., Khim. 1968, Abstr. No. 18N61
     CODEN: 20XNAI
DT   Journal
LA   Russian
AB   Isobutylene (I) hydroformylation was accomplished in a continuous apparatus  In
     a 1.7 l. autoclave, 500-50 g. I and .apprx.10 g. Co carbonyl in toluene
     (concentration 0.65 weight % Co) was heated at 175-90° and 290 atmospheric
synthesis
     gas pressure 120-40 min. to give 80-5% I conversion.  Hydrogenation of the
     hydroformylation product was conducted on a Ni-Cr catalyst at 1 atmospheric, at
     130-40°, aldehyde product feed rate 0.5 volume per volume catalyst per
     hr., H feed rate 600 l. per l. catalyst.  Hydrogenation of aldehydes was
     96-9%.  I hydroformylation product was studied by rectification, and by
     chemical and chromatog. methods.  At 170-80° .apprx.95% of I reacted
     with the combination of the formylation group into the 1-position and
     .apprx.5% into the 2-position.  The following compds. were found in the
     product: Me3CCHO 3.56, MeCHEtCHO 0.23, iso-BuCHO 74.81, BuCHO 0.99,
     toluene 1.57 weight %; condensation products 18.6, and unidentified
     impurities 0.29 weight %.

L5   ANSWER 220 OF 224  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Hydroformylation of olefins in the presence of rhodium carbonyl.  III
AN   1969:37103  CAPLUS
DN   70:37103
TI   Hydroformylation of olefins in the presence of rhodium carbonyl.  III
AU   Gankin, V. Yu.; Genender, L. S.; Rudkovskii, D. M.
CS   USSR
SO   Zhurnal Prikladnoi Khimii (Sankt-Peterburg, Russian Federation) (1968),
     41(10), 2275-81
     CODEN: ZPKHAB; ISSN: 0044-4618
DT   Journal
LA   Russian
AB   The effect of temperature, pressure, molar ratio CO-H2, and concentration of
the
     catalyst on the isomer composition of the aldehydes formed was studied in the
```

hydroformylation of 1-hexene (I) and isobutylene (II) in the presence of Rh carbonyl. Products of conversion of I were α-ethylvaleraldehyde (III), α-methylcaproaldehyde (IV), and n-heptaldehyde (V). In the temperature range of the thermal stability of Rh carbonyl, the temperature increase led to higher concentrations of III and IV. Changes in the partial pressure of H as well as adding Co carbonyl up to a 200-fold excess over Rh carbonyl had no significant effect on the composition of reaction products. The main product of hydroformylation of II was β-methylbutyraldehyde (99.0% at 150°; 97.4% at 170°) predominating over pivalaldehyde.

L5 ANSWER 221 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
TI Homogeneous oxidations of alcohols with palladium (II) salts
AN 1967:490206 CAPLUS
DN 67:90206
TI Homogeneous oxidations of alcohols with palladium (II) salts
AU Lloyd, William G.
CS Lummus Co., Newark, NJ, USA
SO Journal of Organic Chemistry (1967), 32(9), 2816-18
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
AB Primary and secondary alcs. are smoothly oxidized to the corresponding acetals and ketones by Pd(II) salts under mild conditions, typically 70-120°. This reaction, which becomes catalytic in the presence of O and a reoxidant compound, is retarded by Cl- and by more than small amts. of water. Some oxidns. are characterized by a secondary ester forming reaction. Tertiary alcs. do not react under these conditions. 15 references.

L5 ANSWER 222 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
TI C-Alkylation of aldehyde enamines
AN 1967:453580 CAPLUS
DN 67:53580
TI C-Alkylation of aldehyde enamines
AU Curphey, Thomas J.; Hung, Jennie C. Y.
CS St. Louis Univ., St. Louis, MO, USA
SO Chemical Communications (London) (1967), (10), 510
CODEN: CCOMA8; ISSN: 0009-241X
DT Journal
LA English
AB The C-alkylation of ketone enamines has successfully been extended to aldehyde enamines using Bu(iso-Bu)NH as amine and MeCN as solvent. Good yields were obtained by employing 2 moles of alkylating agent per mole of enamine (aldehyde, alkylating agent, and % yield of monoalkylated aldehyde shown): BuCHO, MeI, 66; BuCHO, EtI, 78; BuCHO, BuI, 25, PrCHO, MeI, 58; PrCHO, EtI, 41; PrCHO, BuI, 34; iso-PrCHO, MeI, 64; PhCH2CHO, MeI, 80; PhCH2CHO, EtI, 73.

L5 ANSWER 223 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis of the derivatives of carboxylic acids under conditions of acid catalysis from carbon monoxide, olefins, and compounds which can be acylated. XXV. Synthesis of neoaldehydes and new alkanes by a vapor-phase catalytic reduction of neo-acid chlorides
AN 1967:443365 CAPLUS
DN 67:43365
TI Synthesis of the derivatives of carboxylic acids under conditions of acid catalysis from carbon monoxide, olefins, and compounds which can be acylated. XXV. Synthesis of neoaldehydes and new alkanes by a vapor-phase catalytic reduction of neo-acid chlorides
AU Puzitskii, K. V.; Bulanova, T. F.; Eidus, Ya. T.; Ryabova, K. G.; Sergeeva, N. S.
SO Zhurnal Organicheskoi Khimii (1967), 3(5), 785-8
CODEN: ZORKAE; ISSN: 0514-7492

```
DT   Journal
LA   Russian
OS   CASREACT 67:43365
AB   cf. CA 65: 10504e.  Preparation of neoaldehydes, some of which are useful in
     perfumery was reported earlier (Tr. Vses. Nauch.-Issled. Inst. Sintetich i
     natural'n Dushistykh Veshchestv 7, 16(1965)).  Present method avoids the
     use of high pressure.  Vapor-phase catalytic reduction of Me3CCOCl and
     EtMe2CCOCl gave Me3CCHO and EtMe2CCHO, resp., which were further reduced
     by Wolff-Kishner reduction to Me4C and EtCMe3, resp.  To 1.5 moles boiling
     SOCl2 1 mole Me3CCO2H, m. 35°, b. 163-6°, was slowly added.
     Evaporation and distillation gave 90-5% Me3CCOCl, b. 104.5-6.0°, d20 0.9798,
     n20D 1.4128.  Similarly, EtMe2CCOCl, b. 130.3-1.3°, d20 0.9787,
     n20D 1.4242, was prepared from EtMe2CCO2H, b. 186-7°, d20 0.9273,
     n20D 1.4143.  Vapors of Me3CCOCl and H were passed at 190° and 0.2
     and 100 hr.-1 space velocity, resp., through a tube containing a mixture of 20
     ml. 20% Pd-C catalyst and 10 ml. crushed porcelain.  Exit material was
     dissolved in 20% KOH solution and heated with stirring.  Cyclic trimer,
     (Me2CCHO)3, m. 91°, b. 212-13°, was precipitated on cooling in 95%
     yield.  Heating the trimer with NaHSO4 gave Me3CCHO, b. 74.0-4.4°,
     d20 0.7821, n20D 1.3789 (2,4-dinitrophenylhydrazone m. 208°).
     Similarly, EtMe2CCOCl on catalytic reduction with Pd-C at 190° and
     distillation gave 5% EtCMe3, b. 35-50°, and 85% EtMe2CCHO, b.
     104.3-4.8°, d20 0.8073, n20D 1.3971, 2,4-dinitrophenylhydrazone m.
     146°.  Wolff-Kishner reduction gave 80-5% Me4C, b. 9.5°, m.
     -16°, and EtCMe3, b. 49.7°, d20 0.6493, n20D 1.3688.

L5   ANSWER 224 OF 224  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Reduction of acid chlorides to aldehydes with sodium aluminum
     tri-tert-butoxide
AN   1967:85572  CAPLUS
DN   66:85572
TI   Reduction of acid chlorides to aldehydes with sodium aluminum
     tri-tert-butoxide
AU   Zakharkin, L. I.; Maslin, D. N.; Gavrilenko, V. V.
CS   Inst. Elementoorg. Compds., Moscow, USSR
SO   Zhurnal Organicheskoi Khimii (1966), 2(12), 2197-201
     CODEN: ZORKAE; ISSN: 0514-7492
DT   Journal
LA   Russian
GI   For diagram(s), see printed CA Issue.
AB   Preparation of aromatic and heterocyclic aldehydes (I) from the corresponding
     acid chlorides by reduction with NaAl(OBu-tert)3H in diglyme or
     tetrahydrofuran solns. was studied in a range of -75 to 0° and
     30-180 min.  Yields of I were best at -60° to -70° and 180
     min. in diglyme solns.  NaAlH4, NaAl(OMe)3H, NaAl(OEt)3H, and
     NaAl(OBu-tert)2H2 gave lower yields of I.  E.g., 17.5 g. o-chlorobenzoyl
     chloride in 50 ml. diglyme was stirred 1 hr. at 70° with addition of
     150 ml. diglyme solution containing 30 g. NaAl(OBu-tert)3H, the reduction was
     completed in 2 more hrs. and o-chlorobenzaldehyde (II), b8 86-8°,
     m. 46-7°, was obtained from the mixture in 68% yield.  Similarly,
     other I were obtained: (I and % yield given) BzH, 86; o-BrC6H4CHO, 61;
     m-O2NC6H4CHO, 78; p-ClC6H4CHO, 73; p-BrC6H4CHO, 80: p-O2NC6H4, 78;
     3,5-(O2N)2C6H3CHO, 87; PhCH:CHCHO, 69; o-C6H4(CHO)2, 55; m-C6H4(CHO)2 62;
     p-C6H4(CHO)2, 78; furancarboxaldehyde, 85; thiophenecarboxaldehyde, 63;
     furylacrolein, 72; coumarincarboxaldehyde, 68; nicotinaldehyde, 75; PrCHO,
     48, Me(CH2)4CHO; 45; iso-PrCHO, 34; tert-BuCHO, 45.

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L1	245	(568/420).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/12/21 10:10
L3	189	pivaldehyde	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/21 10:10
L4	1	l1 and l3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/21 11:34
L5	8	"3660416"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/21 11:34

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	IS&R	L1	245	(568/420).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	2004/12/21 10:10	
2	BRS	L3	189	pivaldehyde	US-PGPUB; USPAT; EPO; JPO; DERWENT	2004/12/21 10:10	
3	BRS	L4	1	l1 and l3	US-PGPUB; USPAT; EPO; JPO; DERWENT	2004/12/21 11:34	
4	BRS	L5	8	"3660416"	US-PGPUB; USPAT; EPO; JPO; DERWENT	2004/12/21 11:34	

	Error Definition	Errors
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